

SYSTEM AND METHOD OF INSTRUCTION MODIFICATION

ABSTRACT

A method and system of instruction modification. A first machine language instruction, which may comprise a plurality of discrete instructions, is fetched. Responsive to a trigger pattern in the first machine language instruction, a segment of the first machine language instruction is modified. Information can be substituted into the segment based on specifics outlined in the trigger pattern. Alternatively, information can be combined with the segment via logical and/or arithmetic operations. Modification of the segment produces a second machine language instruction that is executed by units of the processor. In one embodiment, information may be taken from a queue and used to replace data from the segment. How information is taken from the queue and how the information so taken is used to replace fields of the segment are defined by the trigger pattern.